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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/666,144	09/20/2000	Vaijayanti A. Kumar	. 273944	5793		
26694	7590 12/07/2001					
VENABLE, BAETJER, HOWARD AND CIVILETTI, LLP P.O. BOX 34385 WASHINGTON, DC 20043-9998			EXAMINER			
			NGUYEN, DAVE TRONG			
			ART UNIT	PAPER NUMBER		
			1633	$\overline{}$		
			DATE MAILED: 12/07/2001			

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application	No.	Applicant(s)	
Offic Action Summary		09/666,144		KUMAR ET AL.	
		Examiner		Art Unit	
		Dave Nguy		1633	
Period fo	 The MAILING DATE f this communication ap r Reply 	pears on the	cover sheet with the c	orrespondence ad	ldress
THE N - Exten after S - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a rep period for reply is specified above, the maximum statutory period e to reply within the set or extended period for reply will, by statut eply received by the Office later than three months after the mailin d patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no even ply within the statut I will apply and will te. cause the applic	t, however, may a reply be tim ory minimum of thirty (30) days expire SIX (6) MONTHS from to ation to become ABANDONEI	ely filed s will be considered timel the mailing date of this c O (35 U.S.C. § 133).	iy. ommunication.
1)	Responsive to communication(s) filed on	<u> </u>			
2a) <u></u> ☐	This action is FINAL . 2b) T	his action is r	ion-final.		
3)	Since this application is in condition for allow closed in accordance with the practice under	vance except r <i>Ex parte</i> Qu	for formal matters, pr <i>ayle</i> , 1935 C.D. 11, 4	osecution as to th 53 O.G. 213.	ne merits is
Dispositi	on of Claims				
4)🖂	Claim(s) 1-13 is/are pending in the application	on.			
•	4a) Of the above claim(s) is/are withdra	awn from con	sideration.		
5)	Claim(s) is/are allowed.				
6)	Claim(s) is/are rejected.				
7)	Claim(s) is/are objected to.				
8)⊠	Claim(s) 1-13 are subject to restriction and/or	r election requ	iirement.		
Applicati	on Papers				
9) 🗌 -	The specification is objected to by the Examin	ier.			
10) 🔲 -	The drawing(s) filed on is/are: a) ☐ acce	epted or b)	objected to by the Exa	miner.	
	Applicant may not request that any objection to t				
11) 🔲 -	The proposed drawing correction filed on			ved by the Examir	ner.
If approved, corrected drawings are required in reply to this Office action.					
12) 🔲 ¯	The oath or declaration is objected to by the E	examiner.			
•	ınder 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
	 Certified copies of the priority documents have been received. 				
	2. Certified copies of the priority documer				
* §	3. Copies of the certified copies of the pri- application from the International B See the attached detailed Office action for a lis	Bureau (PCT f	Rule 17.2(a)).		l Stage
	Acknowledgment is made of a claim for domes				al application).
а) The translation of the foreign language particles Acknowledgment is made of a claim for domes	rovisional app	olication has been rec	eived.	
Attachment(s)					
1) Notice 2) Notice	the of References Cited (PTO-892) The of Draftsperson's Patent Drawing Review (PTO-948) The mation Disclosure Statement(s) (PTO-1449) Paper No(s))		y (PTO-413) Paper No Patent Application (P	

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Election/Restriction

Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I. Claims 1-9, and 13, drawn to a chiral, peptide nucleic acid oligomer, method of making, and methods of introducing the monomers as claimed in a DNA sequence, and methods of using the oligomers for sequence specific recognitin of a single or double stranded DNA, or RNA, classified in Class 536, 23.1, class 435, subclass 320.1, and class 514, subclass 44.

Group II. Claim 10, drawn to a method of diagnosis by using the oligomer of claim 1 or claim 2, classified in class 435, subclass 6.

Group III. Claims 10-12, drawn to a method of modulating the expression of genes in organisms, and treatment methods in the context of DNA applications of the claimed oligomers, classified in class 514, subclass 44.

The inventions are distinct, each from the other because of the following reasons:

Groups I, II and III are related as product and processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). The peptide nucleic acid of Group I is not limited for use in the treatment of diseases or modulation of gene expressions in any organism, and can be used *in vitro* and/or for diagnosis, wherein each of which methods generates different functions and effects, and is not required for use with each other.

Although there are no provisions under the section for "Relationship of Inventions" in MPEP 806.05 for inventive groups that are directed to <u>different</u> methods, restriction of inventions of Groups I, II and III are deemed to be proper because these methods appear to constitute patentably distinct inventions for the following reasons: inventions of Groups I-III comprise materially distinct steps and are directed to distinct goals and effects, wherein a distinct combination of methods steps are employed to produce a distinct combination of mechanisms and effects. Thus, the inventions of Groups I-III comprise

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materially steps, and are not required for use with one another.

Should Group I, II or III be elected, the claims of the elected Group are generic to a plurality of disclosed patentably distinct species comprising:

A specifically named combination of the formula as recited in each of the claims 1, 2 and 5, wherein each of identifier must be elected for a specific species of compound or molecule.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species as listed above even though this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their divergent subject matter, fall into different statutory classes of invention, and are separately classified and searched, and/or because of the patentably distinct species as listed above, it would be unduly burdensome for the examiner to search and examine all of the subject matter being sought in the presently pending claims, and thus, restriction for examination purposes as indicated is proper.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b)

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and by the fee required under 37 C.F.R. § 1.17(h).

Sequence Rules

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence.

Applicant is advised that the response to this requirement to be complete or the response would be considered as non-responsive.

Any inquiry concerning this communication or earlier communications regarding the formalities should be directed to Patent Analyst Kimberly Davis, whose telephone number is **(703) 305-3015**.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner *Dave Nguyen* whose telephone number is **(703) 305-2024**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Clark, may be reached at (703) 305-4051.

Any inquiry of a general nature or relating to the status of this application should be directed to the *Group receptionist* whose telephone number is **(703) 308-0196**.

Dave Nguyen

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DAVE T. NGUYEN PRIMARY EXAMINER

pplication No.: 09/666,225/

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

X	1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
X	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
	7. Other: _
Аp	plicant Must Provide:
X	An <u>initial</u> or substitute computer readable form (CRF) copy of the "Sequence Listing".
	An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
X	A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).
Foi	r questions regarding compliance to these requirements, please contact:
Fo	r Rules Interpretation, call (703) 308-4216 r CRF Submission Help, call (703) 308-4212 tentIn Software Program Support
	Technical Assistance703-287-0200 To Purchase PatentIn Software703-306-2600

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY